

APPROVED BY DRAFTSMAN	O.G. FIG.	CLASS/SUBCLASS

FIG. 1A.

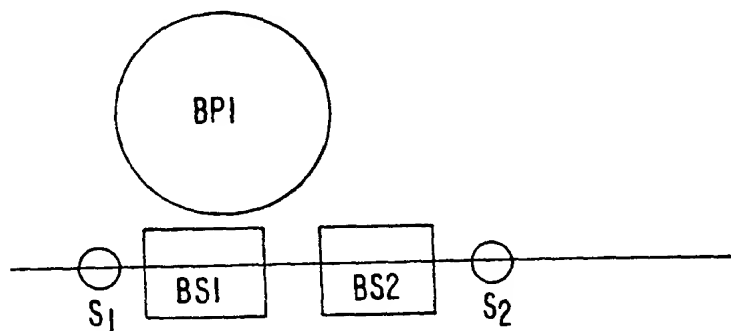
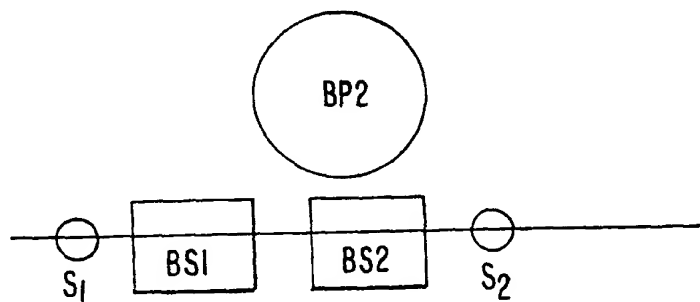


FIG. 1B.



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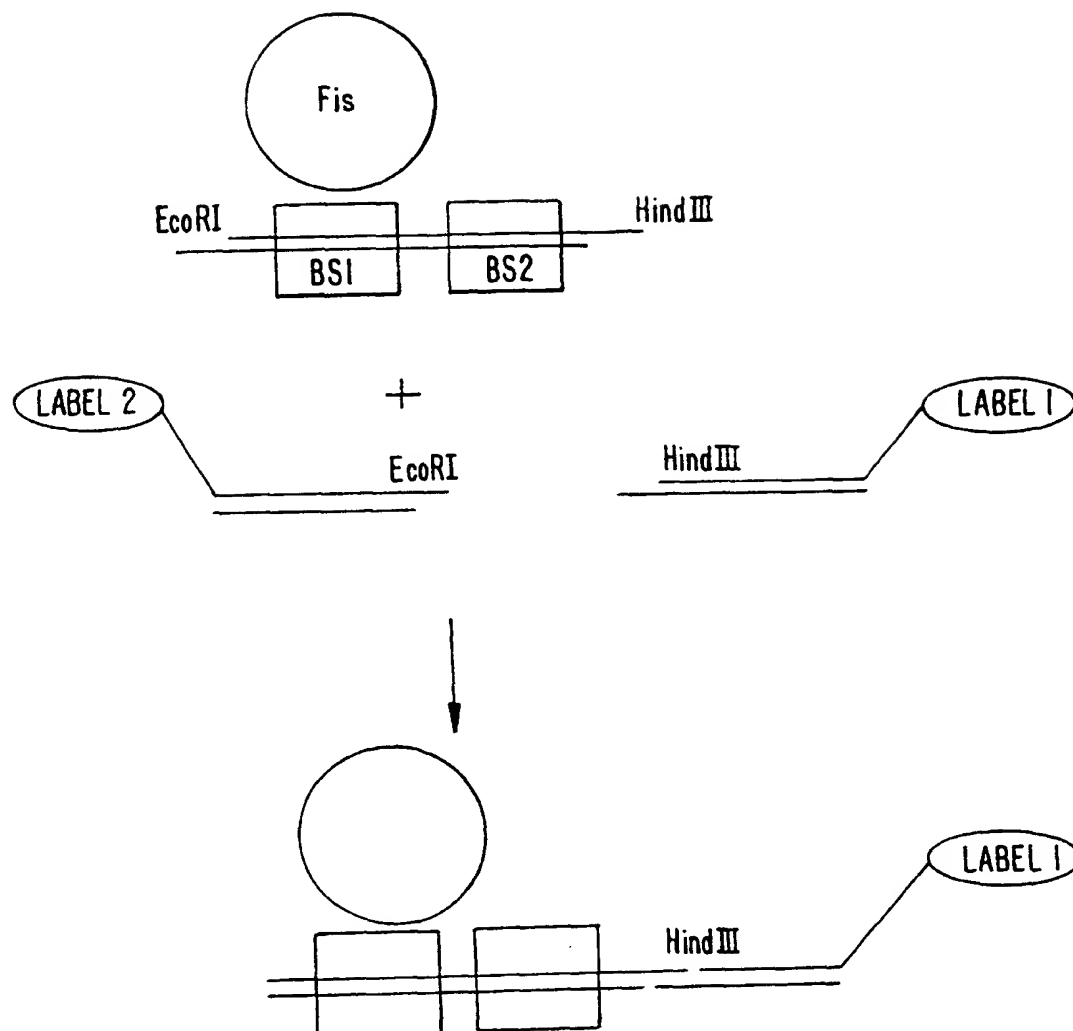


FIG. 2.

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APPROVED	FIG.
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GATE A (NOR)

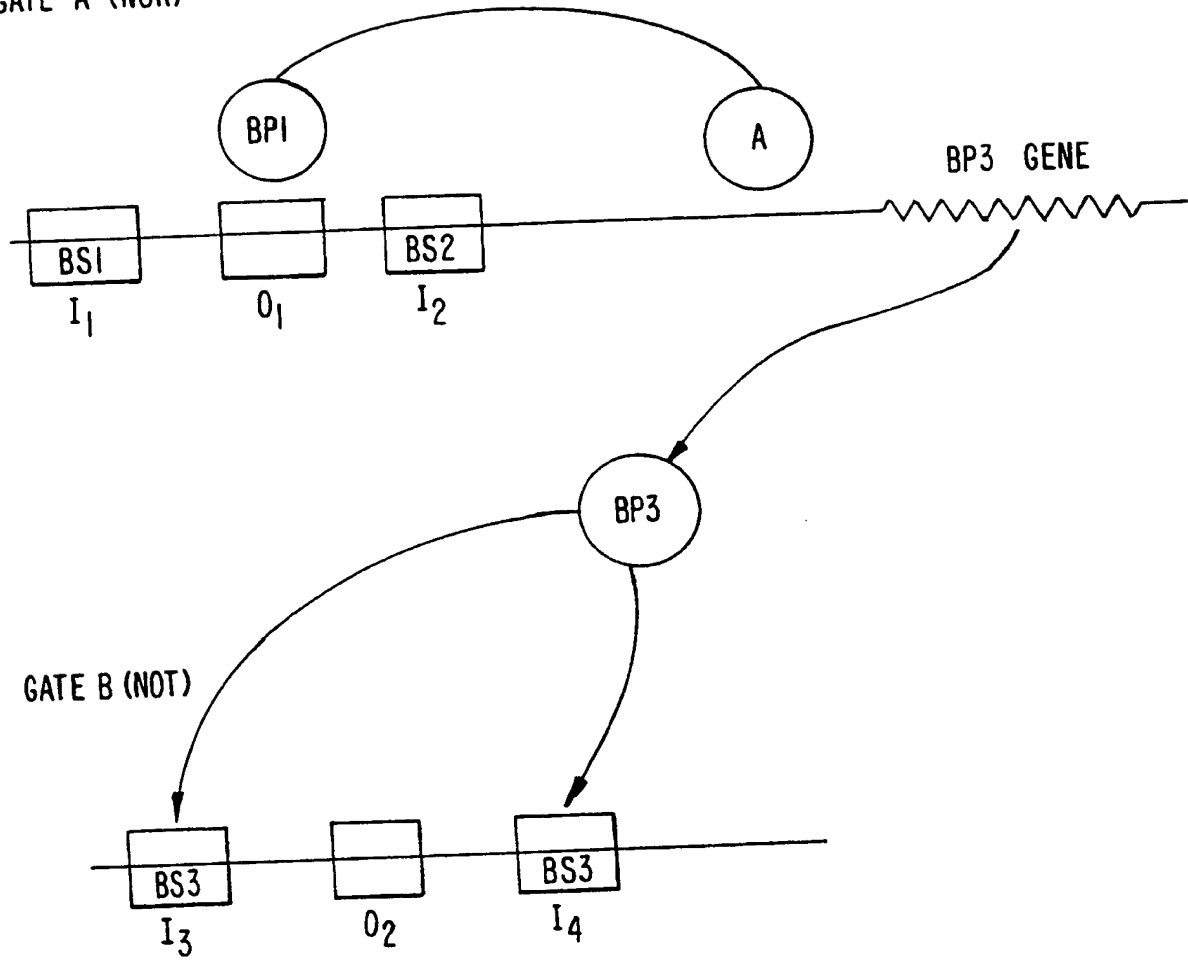
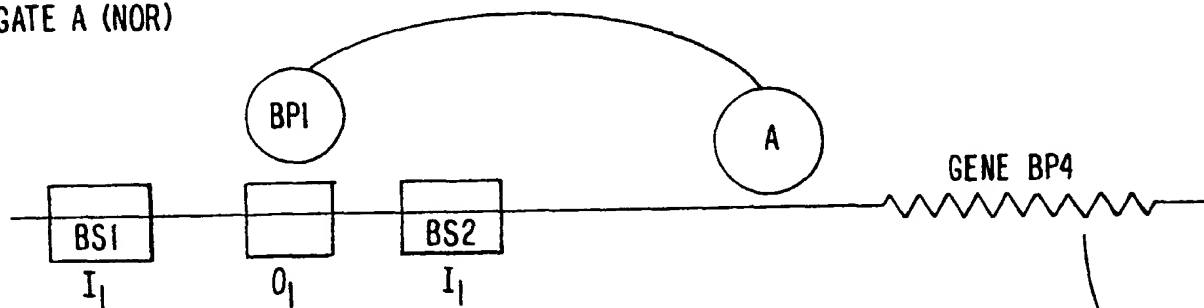


FIG. 3.

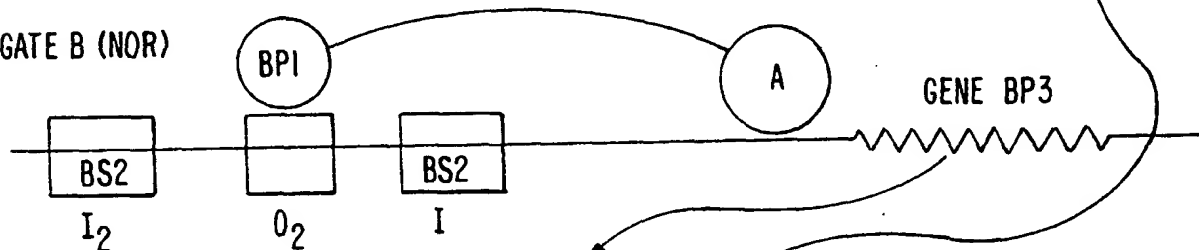
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APPROVED	Q.G. FIG
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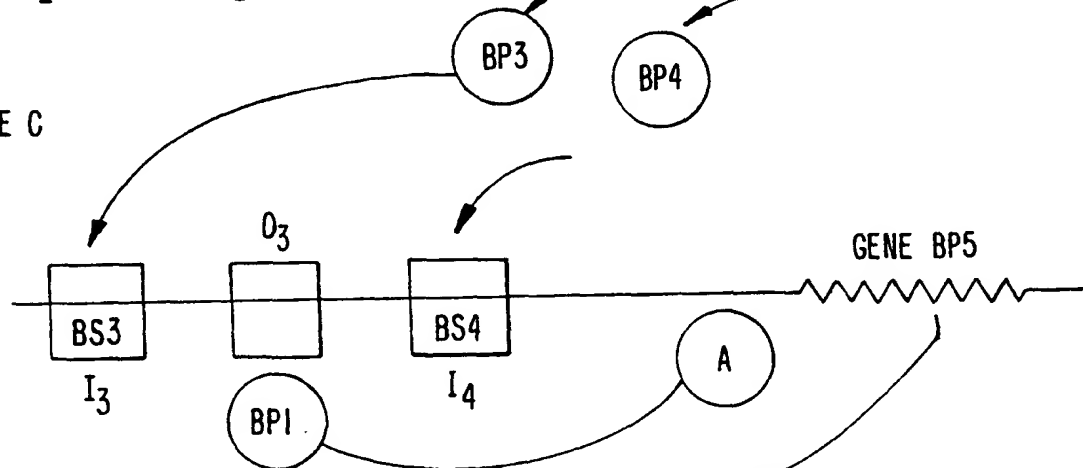
GATE A (NOR)



GATE B (NOR)



GATE C



GATE D

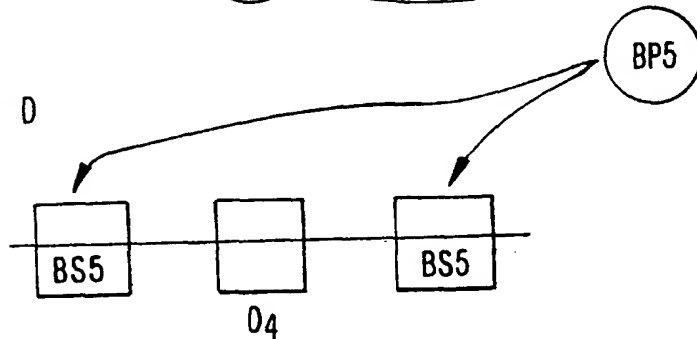


FIG. 4.

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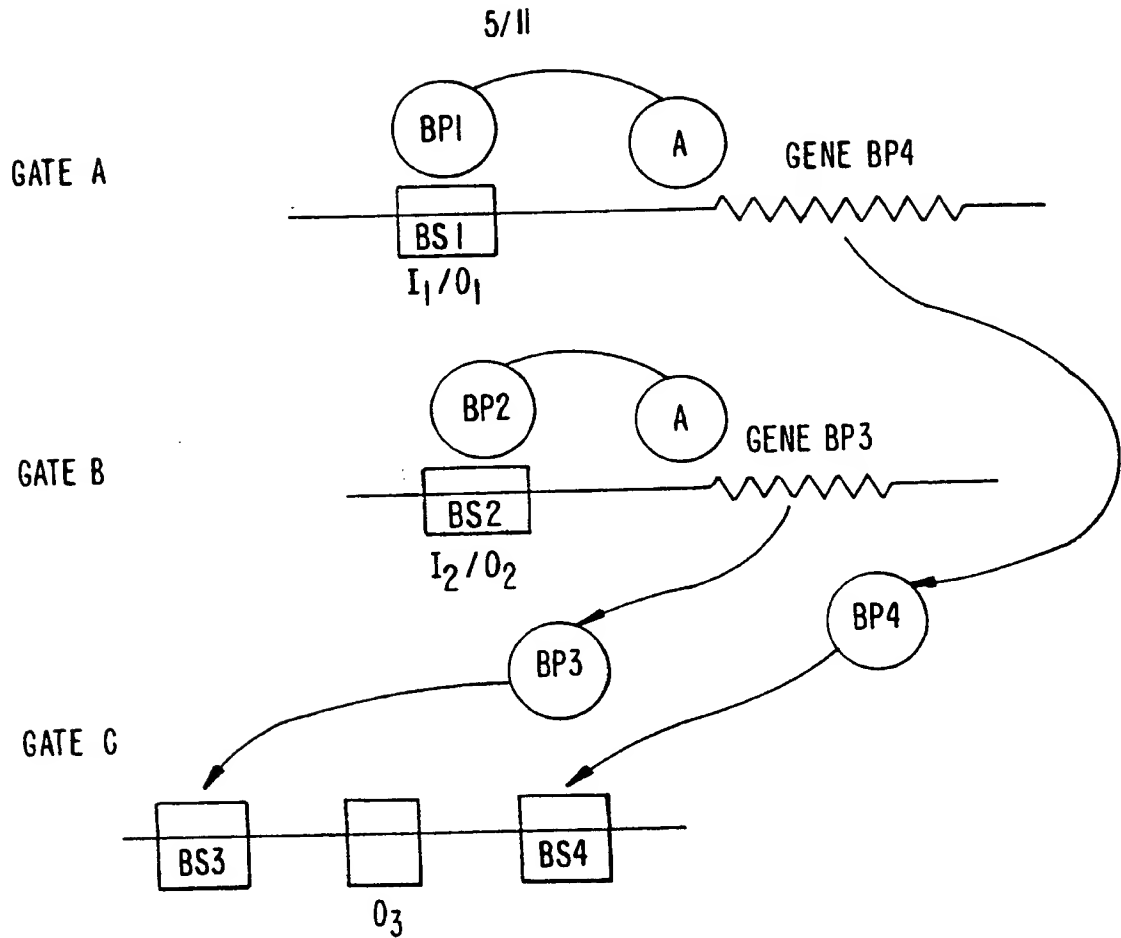


FIG. 5A.

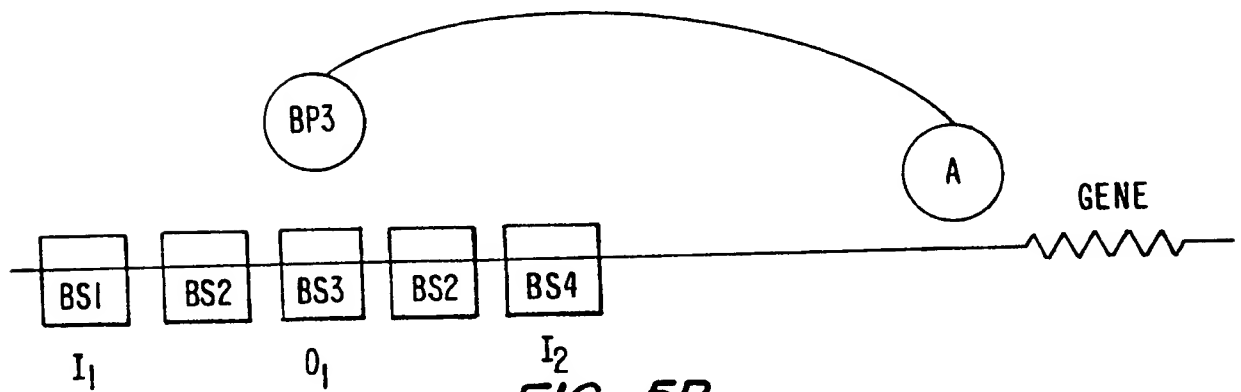


FIG. 5B.

O.G. FIG.	CLASS	SUBCLASS
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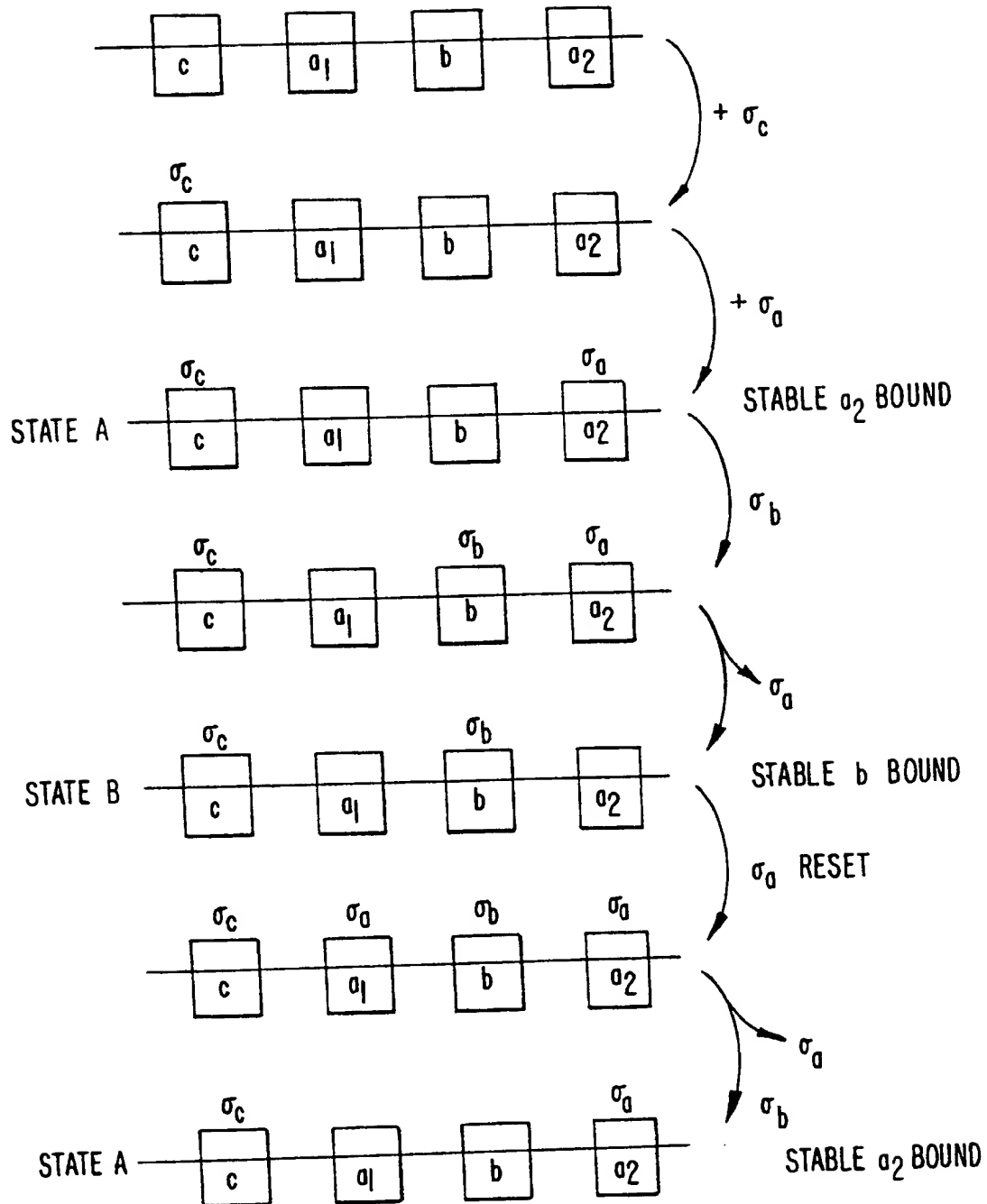


FIG. 6.

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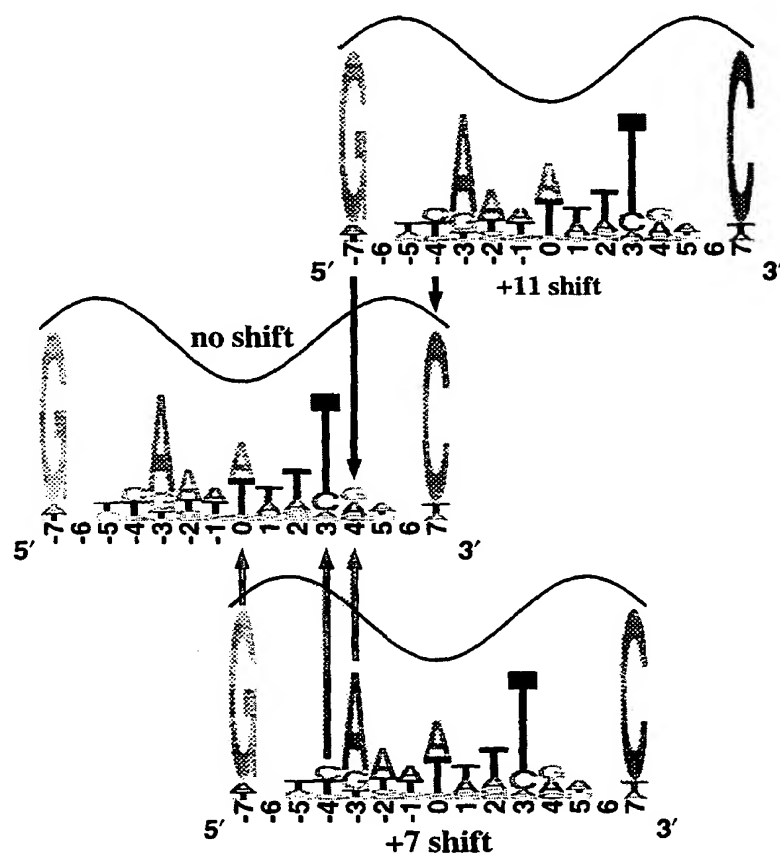


FIG. 7.

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APPROVED	O.G. FIG.	
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[illegible]

**a) Overlap 11**

	*	*10	*	*20	*	*30	*	*40																							
5'	t	a	t	t	c	t	c	a	a	a	t	t	t	a	y	c	a	a	a	t	a	a	t	a	3'						
																	<b>Caa</b>								18.1 bits						
																	<b>ttg</b>														

ettg tdaattga Caa<sub>m</sub> Fis 18.1 bits

### b) Overlap 7

\* \*10 \* \*20 \* \*30 \*

5' aggccttctgctcaaatctttaaaccttttagcacaaggccct3'

cttg tdaa tttaa C tFls 12.7 bits

g\_ttdaa[ettga Caa\_ris 12.7 bits

c) 8 parat d 23

5' g g a a t t c t t t g c t c a a a a t t t g a t c a g g a t c c t g a t c a a a t t t g a g c a a a y a a t t c c c 3' [-----] EcoRI \* \*20 \*30 \*40 \*50

attg tcaaat tta Ca<sub>2</sub> 15.0 bits [-----] BamHI

9 tdaattsa Caa rin 15.0 bits

**FIG. 8.**



APPROVED	O.G. FIG.
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DDST21" T95T0960

WO 99/42929

09/601561  
PCT/US99/03469

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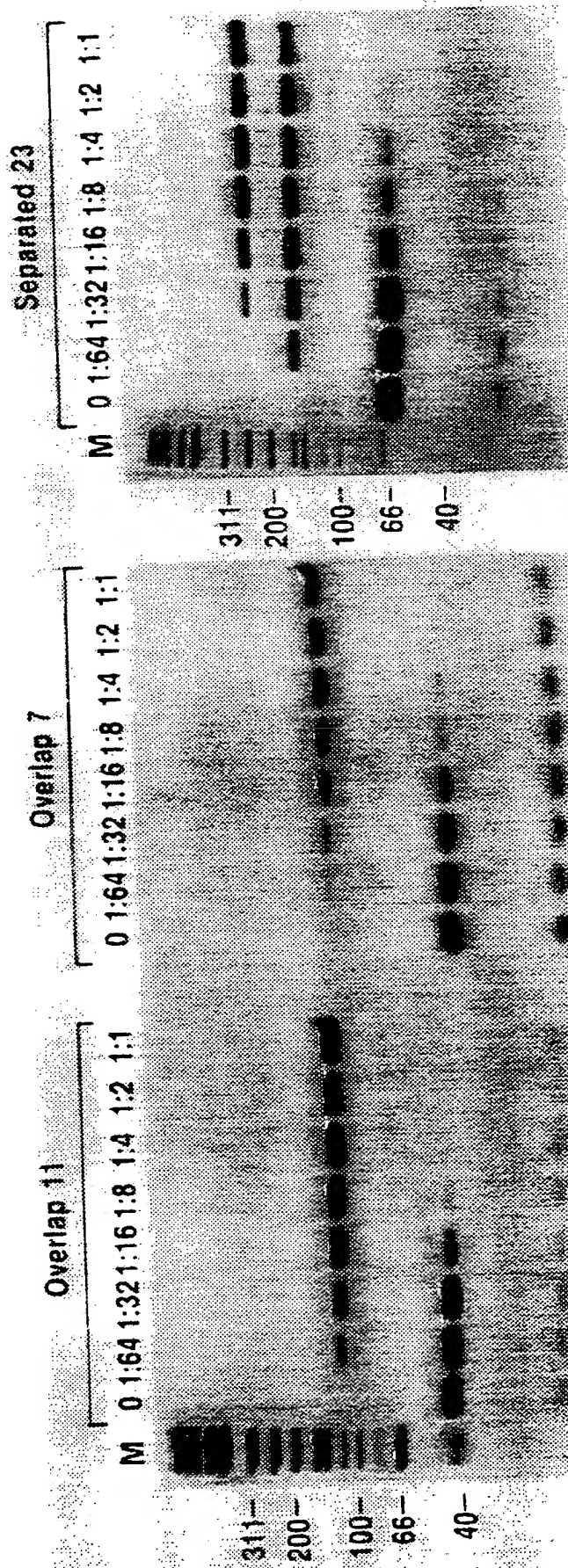


FIG. 9.

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APPROVED	O.G. FIG.
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005727" T95T0360

\* 190 \* 200 \* 210 \* 220 \* 230  
 5' g t t a t a c a c a a c t c a a a a a c t g a a c a a c a g t t g t t c t t g t t g a t a a c 3'  
 3' c a a t a t g t g t t g a g t t t t t g a c t t g t t g t c a a c a a y a a a c c t a t t g 5'  
 |-----| DNase I footprint (Messer et al., 1991)  
 |-----| DNase I footprint (Gille et al., 1991)  
 |-----| DNase I footprint (Filutowicz et al., 1992)  
 |-----| MPE footprint (Messer et al., 1992)  
 |-----| DNase I footprint (Roth et al., 1994)

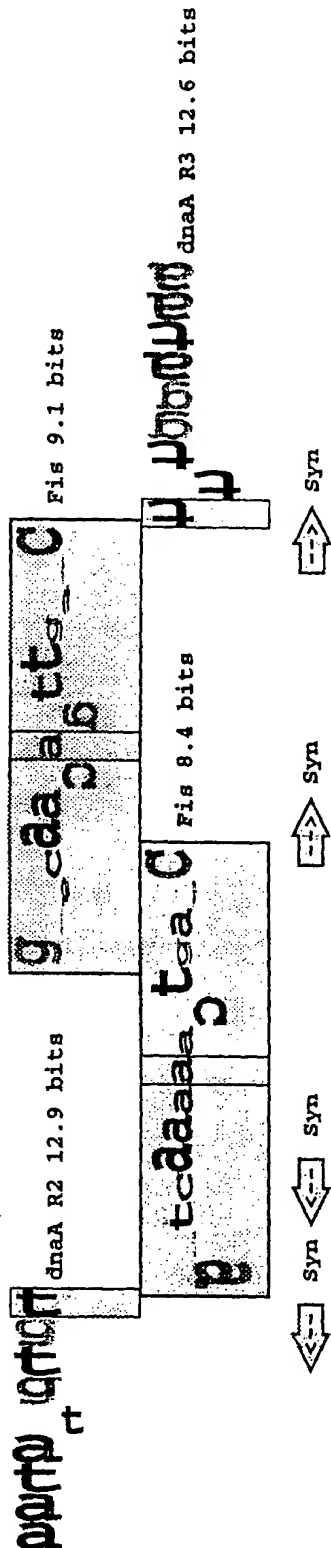


FIG. 10.

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\* 1998/02/04 14:34:15, 1998/02/04 14:34:15, aaolo2 of oriC FIs  
piece 1, pl, piece 1, config: linear, direction: +, begin: 1, end: 113

5' a a c g g a t c c a a a a a a c t g a a a c a a c a a g t t t c s a a t t c t c g a g c c 3'  
[ ^-----] BamHI [ ^-----] EcoRI [---... PvuII

\* \*10 \*20 \*30 \*40 \*

tcaaaatua Caa Fis 8.4 bits  
 [^-----] xhoI

a t g c d a a t t g C a a F i s 10.0 bits

```
*      *60       *70       *80       *90     *    *100
5' atcggcgaaacccgatactgcgtcgaagaaatctcgaacctgccagtctt3'
... (-(-(-(---)----))-(--)-(--)-(--)(-)-(-)--)(-) - ... odd58
          pvuI        [^-----] EcoRI
```

[illegible]

```
{-----#-----} hairpin-loop
```

ttg\_tcd\_ttt ... Pib

```

* *110
5' t g a g t g g a t c c c g 3'
... )-)-)-)-)-)-)-)-)-)-) odd58 80.5 bits
      [^-----] BamHI

```

...tag 8.4 bits

**FIG. 11.**